SAMSUNG

Format Viewing

STATEMENT

Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

Important Warranty Information Regarding Television

🖄 Wide screen format LED Displays with aspect ratios of 16:9 (the ratio

of the screen width to screen height) are primarily designed to display wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded

to fill the screen if your model offers this feature and the images are

constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on non-expanded standard format

5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market crawls, video

game displays, station logos, web sites or computer graphics and

burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving

mages, not stationary patterns or dark bars. On LED models that

offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and

as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY

Subject to the requirements, conditions, exclusions and limitations of the

products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada

and in Canada on SAMSUNG products purchased in the United States, for the

and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only. The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement and the Original Limited Warranty Statement, a dated Bill of Sale as Proof of Purchase must be presented to the Service Center. Transportation to and from the Service Center is the responsibility of the purchaser. Conditions covered are limited only to manufacturing defects in material or workmanship, and only those encountered in normal use of the product. Exclusions include, but are not limited to, any originally specified provisions for in-home or on-site services, options, upgrades, or consumables. For the location of a SAMSUING Authorized Service Center please call toll-free-

For the location of a SAMSUNG Authorized Service Center, please call toll-free

Turns the TV on and off.

Adjusts the volume

Views the Media Play.

Press to directly access to channels

Press to select additional channels (digital) bein

broadcasted by the same station. For example to select channel '54-3', press '54', then press '

Displays the channel list on the screer

Quickly select frequently used functions.

Selects the on-screen menu items and change

The button names above may differ from the actual names

🔊 Some buttons on the remote control may not be available

Horizontal Vertical

Display Modes (HDMI/DVI Input)

Optimal resolution: 1366 x 768@60Hz

ENTER 🖃 and Direction buttons

the values seen on the menu

Returns to the previous menu

F-MANUAL: Not available

P.SIZE: Choose the picture size

CC: Controls the caption decode

- In the United States : 1-800-SAMSUNG (1-800-726-7864

In Canada : 1-800-SAMSUNG

Remote Control

original Limited Warranty supplied with Samsung Electronics (SAMSUNG

duration of television formats you use for viewing. Uneven LED aging

elevision video and programming, should be limited to no more than

patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent

L F D T V

user manual

Still image warning

menu for best possible match.

Securing the Installation Space

the internal temperature of the product.

Installation with a stand.

Contact SAMSUNG WORLD WIDE

Country

Customer Care

Center 🖀

Web Site

4 5

1 2 3

7 8 9

CH

ABCD

EHIANUAL P.SIZE CC

SAMSUNG

🦠 This remote control has Braille points on the Power. Channel and Volume buttons and can be used by visually impaired persons

 \checkmark

✓

✓

✓

✓

✓

 \checkmark

- 5

🔍 NOTE

TOOLS

INFO i

O PRE-CH

4inches

process.

ensure proper ventilation.

Avoid displaying still images (such as jpeg picture files) or still image elements (such as TV channel logos, panorama or 4:3 image format, stock or news bars at screen bottom etc.) on the screen. Constant displaying of still pictures can cause ghosting of LED screen, which will affect image quality. To reduce risk of this effect, please follow below recommendations:

• Always try to display any image on full screen, use TV set picture format

Reduce brightness and contrast values to minimum required to achieve

desired picture quality, exceeded values may speed up the burnout

• Frequently use all TV features designed to reduce image retention and

Keep the required distances between the product and other objects (e.g. walls) to

When using a stand or wall-mount, use parts provided by Samsung

🖏 Be careful when you contact the TV because some parts can be somewha

4inches

If you have any questions or comments relating to Samsung products,

nc. 2050 Derry Road Wes

Aississauga, Ontario L5N

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ww.samsung.com/ca_fr

.....

plays and selects the available video

ns the remote control light on or off

note control with this button set to Or

/hen on, the buttons become illum

vill reduce the battery usage time.

Returns to the previous channel.

Cuts off the sound temporarily.

Displays the main on-screen menu.

Displays information on the TV screen

Use these buttons according to the

Use these buttons in a specific feature

Automatically shuts off the TV at a preset

- Changes channels.

time.

Exit the menu.

Installing batteries (Battery size: AAA)

• Use the remote control within 23 feet from TV.

use when nearby fluorescent lights or neon signs.

• The Color and shape may vary depending on the model

Bright light may affect the performance of the remote control. Avoid

for a moment when pressed. (Using the

with the product or an injury due to the product falling

🖏 The appearance may differ depending on the product

please contact the SAMSUNG customer care center

CANADA

)B9 Canada

upport (English)

port (French

Failing to do so may result in fire or a problem with the product due to an increase in

• If you use parts provided by another manufacturer, it may result in a problem

Installation with a wall-mount.

U.S.A

merica, Inc. 85 Challe

Road Ridgefield Park, NJ

1-800-SAMSUNG (726-7864)

Samsung Electronics Canada Samsung Electronics

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screen burnout, refer to proper user manual section for details.

• Avoid displaying the same TV channel for long periods.

Important Safety Instructions

4000

SAMSUNG

CAUTION

RISK OF ELECTRIC SHOCK. DO NOT OPEN.

COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE.

This symbol indicates that high voltage is present inside

It is dangerous to make any kind of contact with any

This symbol indicates that this product has included

cords at the plug end, at wall outlets, and at the point where they exit from the appliance.

unplug it by pulling on the power cord. Do not touch the power cord with wet hands.

· Store the accessories (batteries, etc.) in a location safely out of the reach of children

important literature concerning operation and

REFER ALL SERVICING TO OUALIFIED PERSONNEL

maintenance.

supply.

authorized dealer or service center

the insulation to deteriorate.

• Use only a properly grounded plug and wall outlet.

outlet and power plug are readily accessible.

• Do not dispose of batteries in a fire.

The On Screen Menus

The Main menu has seven primary categories:

Tools menu, press the TOOLS button on your remote.

Dynamic: Brightens the screen. Suitable for a bright room.

Only available when the TV is connected to a PC.

Standard: Suitable for normal room brightnes:

Entertain: Sharpens the picture. Suitable for games

■ Sharpness: Sharpens or dulls the edges of objects.

Contrast, Brightness, and Sharpness.

Size, and HDMI Black Level.

makes the picture redder (warmer).

/our TV has two kinds of menus, the Main menu and the various Tools menus.

The Main menu gives you access to most or all of the menu options available

on your TV. The Tools menus display a selected number of frequently used menu options that change depending on the screen you are viewing. A Tools

menu symbol (T) in the lower right side of the screen indicates that a Tools

To view the Main menu, press the MENU button on your remote. To view a

you have selected. For example, if you have selected the HDMI

category, you must first select TV in the Source List.

ource, the Channel category will not appear. To see the Channel

The Menu options are presented below, arranged by Main menu categories.

Nhen your TV is connected to a PC, you can only select Entertain and Standard.

Movie: Darkens the screen, making it less glary. Suitable for watching movies in a

Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

Backlight: Adjusts the brightness of the screen by adjusting the brightness of the

Contrast: Increases or decreases the contrast between dark and light areas of the

Brightness: Adjusts the brightness of the screen. Not as effective as Backlight.

 \odot When the TV is connected to a PC, you can only make changes to Backlight,

When the TV is connected to a PC, you can only make changes to the Color Tone,

Color Tone (Cool / Standard / Warm): Cool makes the picture bluer (cooler). Warm

Your cable box or satellite receiver may have its own set of screen sizes as well.

Zoom1: Provides moderate magnification of the picture. Sides, top, and bottom are

Zoom2: Provides larger magnification of the picture. Sides, top, and bottom are cut off.

Wide Fit: Enlarges the aspect ratio of the picture so the picture fits the entire screen.

4:3: Sets the picture to the old, 4:3 format and puts black or gray borders on the right

Do not watch your TV in the 4:3 format for a long time. The borders displayed

retention (screen burn) which is not covered by the warranty.

on the left, right, and center of the screen in 4:3 format may cause image

However, we highly recommend you use the TVs 16:9 mode most of the time.

Warm is deactivated when the picture mode is set to Dynamic.

Size: Set the size and aspect ratio of the picture on the screen.

16:9: Sets the picture to the 16:9 wide screen format.

■ Color: Adjusts the color saturation. The higher the Color setting, the more intense

olor. Low settings remove color and the picture becomes black, white, and gray. Movie: Provides the best sound for movies.

Tint (G/R): Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.
 Clear Voice: Emphasizes voices over other sounds

A Tools button symbol (**TOOLS**) next to an option name indicates the option is also available in one of the Tools menus.

🕲 The menu options that appear in the Main menu depend on the Source

Input

Applicatio

Support

• Do not expose this apparatus to dripping or splashing.

• Do not short-circuit, disassemble, or overheat the batteries.

on the product.

menu is available.

Picture

Channel

Setup

Picture Menu

Select your preferred picture mode.

vidual pixels.

Picture Options

cut off.

and left of the picture.

Mode TOOLS

• Sound

internal part of this product.

contact your local authorities for disposal or recycling information.

children, elderly, or disabled people will be left alone in the house).

Warning! Important Safety Instructions

(Please read the Safety Instructions before using your TV.)

Class II product: This symbol indicates that a safety

connection to electrical earth (ground) is not required.

AC voltage: Rated voltage marked with this symbol is AC

DC voltage: Rated voltage marked with this symbol is DC

instructs the user to consult the user manual for further

Caution. Consult instructions for use: This symbol

safety related information.

_ _ _

The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus and to
protect it from overheating, these slots and openings must never be blocked or covered.

• Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming

This apparatus uses batteries. In your community, there might be environmental regulations that require you to dispose of these batteries properly. Please

Power-supply cords should be placed so that they are not likely to be walked on or pinched by items placed upon or against them. Pay particular attention to

To protect this apparatus from a lightning storm, or when left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect

· Before connecting the AC power cord to the DC adaptor outlet, make sure that the voltage designation of the DC adaptor corresponds to the local electrical

• Be sure to plug in the power cord until it is firmly seated. When unplugging the power cord from a wall outlet, always pull on the power cord's plug. Never

• If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an

• Be sure to pull the power plug out of the outlet if the TV is to remain unused or if you are to leave the house for an extended period of time (especially when

 Be sure to contact an authorized Samsung service center for information if you intend to install your TV in a location with heavy dust, high or low temperatures, high humidity, chemical substances, or where it will operate 24 hours a day such as in an airport, a train station, etc. Failure to do so may lead to serious damage to your TV.

🕙 Accumulated dust can cause an electric shock, an electric leakage, or a fire by causing the power cord to generate sparks and heat or by causing

• To turn off this apparatus completely, disconnect it from the wall outlet. To ensure you can unplug this apparatus quickly if necessary, make sure that the wall

To clean this apparatus, unplug the power cord from the wall outlet and wipe the product with a soft, dry cloth. Do not use any chemicals such as wax, benzene, alcohol, thinners, insecticide, air fresheners, lubricants, or detergents. These chemicals can damage the appearance of the TV or erase the printing

There is danger of an explosion if you replace the batteries used in the remote with the wrong type of battery. Replace only with the same or equivalent type.

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Source are listed below

ATV, AV, Component (480i, 480p)

1080p), HDMI (720p, 1080i, 1080p)

TV displays the best picture.

HDMI (480i / 1080i)

Picture Off

Picture Reset

Mode Tools 7

<u>Equ</u>alizer

Auto Volume

Speaker Select

Sound Menu

Input Source

Do not place this apparatus in a confined space, such as a bookcase or built-in cabinet, unless proper ventilation is provided.

🖄 Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight

pool, etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately

the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.

🖄 An improper ground may cause electric shock or equipment damage. (Class l Equipment only.)

• Use care when touching the TV after it has been on for some time. Some parts can be warm to the touch

• Do not drop or strike the product. If the product is damaged, disconnect the power cord and contact a Samsung service center.

WARNING - TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES AND OTHER ITEMS WITH OPEN FLAMES AWAY FROM THIS PRODUCT AT

• Never insert anything metallic into the open parts of this apparatus. This may cause a danger of electric shock.

To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus.

🚳 Do not place vessels (vases etc.) containing water on this apparatus, as this can result in a fire or electric shock.

• Do not overload wall outlets, extension cords, or adaptors beyond their capacity, since this can result in fire or electric shock.

Owner's Instructions

Audio Composite (AV)

| Midke Sulle |
|-------------|
| |
| HDMI |
| USB |
| Optical |
| |



TV Controller



you cannot operate it to move the up/down/left/right directions.

Plug & Play (Initial Setup)



Preferred Language

- Digital channels only.
- $^{\odot}$ You can only select a language from among the ones being broadcast.
- Multi-Track Sound (MTS) Analog channels only.

input source.

Visually Impaired

Dolby Digital Comp

Sets Dolby Digital compression mode HDMI Audio Format

scribed below let you re-run the channel memorization function without

Antenna (Air / Cable) Before your television can memorize the available channels, you must



Screen Fit: Displays the full image without any cut-off when your TV is

Digital Clean View (Off / Low / Medium / High / Auto) : If the broadcast signa

■ HDMI Black Level (Normal / Low) : For HDMI signals, select the black level to

■ Film Mode (Off / Auto1 / Auto2) : Sets the TV to automatically sense and process

Available in ATV. DTV (interlace). AV. COMPONENT (480i / 1080i) and

film signals from all sources and adjusts the picture for optimum quality

Motion Lighting (Off / On): When on, the TV automatically dims the screen's

The screen is turned off but the sound remains on. Press any button except

■ Picture Reset (Reset Picture Mode/Cancel): Resets the picture settings to

■ Balance L/R: Adjusts the balance between the right and left speaker.

■ 100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the

Automatically adjusts the volume level when you change video sources or

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in

idio receiver. If this occurs, set the TV to External Speaker.

decoding speed between the TV's speakers and the speakers attached to your

🗞 When you set Speaker Select to External Speaker, the TV's speakers

the external speakers are on. You will hear sound through both.

buttons will not operate and the sound settings will be limited.

🕲 If there is no video signal, both the TV's speakers and the external

are turned off. You will hear sound through the external speakers only

When you set Speaker Select to TV Speaker both the TV's speakers and

When Speaker Select is set to External Speaker, the VOLUME and MUTE

eturned to full brightness when the TV displays bright scenes

backlights when full brightness is not needed - for example when the TV is displaying dark scenes - to reduce power consumption. The backlights are

When the signal is weak, try all the Digital Clean View options until the

reduce any static and ghosting that may appear on the screen.

adjust the screen depth. Low make blacks look darker

Available only in HDMI mode (RGB signals).

the power key or volume button to turn on the screer

Standard: Selects the normal sound mode.

Available in Standard sound mode only.

content so the level remains the same.

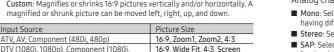
speakers will be mute.

- 6 -

loudness of specific bandwidth frequencies.

Reset: Resets the equalizer to its default settings

inputting HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) HD

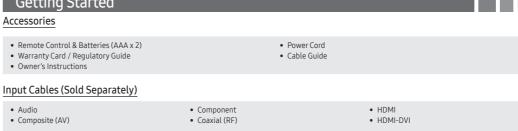


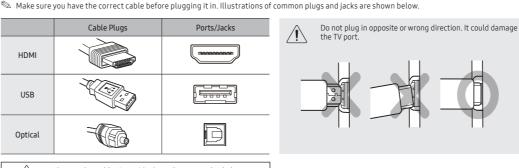
- received by your TV is weak, you can activate the Digital Clean View feature to
 - Stereo or SAP. SPDIF Output

(digital channels only

You can select the HDMI Sound Reset

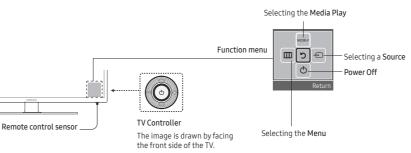
Getting Started





Do not plug cables in upside down. Be sure to check the orientation of the plug before plugging it in.

The TV's Controller on the bottom right side of the TV, lets you control the TV without the remote control.



🖏 The product color and shape may vary depending on the model.

You cannot input the numbers by pressing the TV's controller.

🕲 To close the Menu, Media Play List, or Source List, press the Controller for more than 1 second. 🗞 When selecting the function by moving the controller to the up/down/left/right directions, be sure not to press the controller. If you press it first,

When you turn the TV on for the first time, a sequence of screens and on-screen prompts will assist you in configuring the TV's basic settings. Press the POWER button. Plug & Play is available only when the Input source is set to TV. Set the initial setup following instructions that the TV guides. Connecting the power cord and antenna. (refer to 'Connections')

Digital-TV broadcasts can transmit many audio tracks simultaneously (for xample, simultaneous translations of a program into foreign languages

Mono: Select for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal. Stereo: Select for channels that are broadcasting in stereo

SAP: Select to listen to the Separate Audio Program, which is usually a oreign-language translatio

🕲 Depending on the program being broadcast, you can listen to Mono,

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater.

Audio Format: You can select the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) format may differ depending on the

Audio Delay: Lets you correct timing mismatches between the audio trac and the video when you are watching the TV and listening to digital audio output from the TV through an external device such as an AV receiver When you select Audio Delay, a slider appears. Use the left and right arrow buttons to adjust the slider. Press ENTER I when done (Oms ~ 250ms).

Adds a verbal description to the main audio to help the visually impaired

differ depending on the input source.

Reset All: Resets all sound settings to the factory defaults.

Channel Menu

Memorizing Channels When you first set up your TV using Plug & Play, the TV memorized the channels that were available over the air or through your cable system and added them to the Channel List. The Antenna and Auto Program functions

aving to re-run the Plug & Play procedure.

select your Television can memorize available available channels, you must select your Television can increa, Air (using an antenna) or Cable. Select Menu > Channel > Antenna > Air or Cable. After you have selected the signal source, go on to the Auto Program function. Selecting the signal source using the Antenna function also

ines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select Cable, you will see only snow. You must select Air to see a picture.

Auto Program

The Auto Program function memorizes all channels that are available over the air or through your cable system and adds them to the Channel List. If you are using a cable or satellite box, you do not need to run the Auto Program function

- To start Auto Program, follow these steps $\mathsf{Push}\;\mathsf{MENU}\,{\color{black}{\boxplus}}\to\mathsf{Channel}\to\mathsf{Auto}\;\mathsf{Program}\to\mathsf{ENTER}\;{\color{black}{\textcircled{\bullet}}}\;\mathsf{on}\;\mathsf{your}\;\mathsf{remote}.\;\mathsf{The}\;$
- Antenna Source screen appears. 2. On the Antenna Source screen, select the source of your TV signal.
- If your TV is connected to an antenna choose Air, and then press ENTER . The
- TV will automatically start memorizing channels. Cable If your TV is connected to a cable outlet, choose Cable, and then press
- ENTER 🗗. Go to Step 3. Auto
- If you choose Auto, and then press ENTER , the TV will automatically
- select the correct Antenna source. Go to Step 3. On the Cable Type screen, use the $\langle \rangle / A / \nabla$ buttons to select the type of digital and analog cable systems you have: STD, HRC, or IRC. Most systems an
- STD (Standard). When done, select Start, and then press ENTER 🔫. The TV will tart memorizing channels.
- 🔊 Channel memorization can take up to 45 minutes, depending on your cable system. Memorized channels are added to the Added Channels list. These are the
- channels you will see when you use the Channel buttons on your remote Clear Scrambled Channel
- This function filters out scrambled channels after Auto Program is
- leted. This process may take up to 20~30 minute Press the ENTER 🔫 button to stop the Clear Scrambled Channel
- Solution This function is only available in Cable mode.

Managing Channels

Channel List

See your list of Added channels. Favorite channels, or channels you've scheduled for viewing. Add or delete Favorite channels, add or delete channels from the Added Channels list, schedule channels or programs for viewing. Watch a channel by selecting the channel in the All Channels, Added Channels, or Favorite Channels screen, pressing the \blacktriangle / \checkmark buttons, and then pressing the ENTER 🕑 button.

- Channel List Screens icons are listed on the left side. Select an icon using the ▲/▼ buttons to view each list. All Channels: Shows all currently available channels including those
- udeleted from the Added Channels list
- Added Channels: Shows all Added Channels. These are the channels that appear when you press the CH butto
- Favorite Channels: Shows all favorite channels. More a contract of the second se using Timer Viewing.
- 🔊 Remote control buttons active on the Channel List screen
- If you use a cable box or satellite box, you cannot use the Channel List
 If you use a cable box or satellite box, you cannot use the Channel List or the Channel List functions.

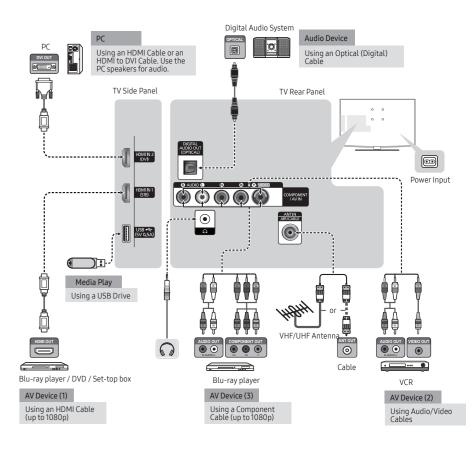
Display Icons Used in the Channel List Screens

| Icons | Meaning | | |
|--------------|--------------------------------------|--|--|
| \checkmark | A selected channel. | | |
| • | A Favorite channel. | | |
| Θ | A reserved program. | | |
| ň | A program currently being broadcast. | | |

Connections

• For the best picture and audio quality, connect digital devices using an

- HDMI cable. • If you connect an external device to the TV that uses an older version
- of HDMI, the video and audio may not work. If this occurs, ask the request an upgrade
- play or a connection error may occur PC/DVI AUDIO IN input is not supported.
- For an HDMI to DVI cable connection, you must use the HDMI IN 2 (E
- Connecting through the HDMI cable may not be supported depending on the PC.
- manufacturer of the device about the HDMI version and, if it is out of date, If an HDMI to DVI cable is connected to the HDMI IN 2 (DVI) port, the audio does not work.
- Be sure to purchase a certified HDMI cable. Otherwise, the picture may not
 For Set-top box connection using HDMI cable, we highly recommend you to connect the HDMI IN 1 (STB) port.



- 4 -

How to use Edit Name

Edit Name lets you associate a device name to an input source, making it easier to select a source. To access Edit Name, enter the Input menu, and then select Edit Name. Select the name of the device from the drop down next to the name of the input jack it is connected to. For example, if your Blu-ray player is connected to HDMI 2, select Blu-ray player from the drop next to HDMI 2.

- ◎ If you have connected a PC to the HDMI IN 2 (DVI) port with an HDM cable, you should select PC mode in Edit Name.
- If you have connected a PC to the HDMI IN 2 (DVI) port with an HDMI to DVI cable, you should select DVI PC mode in Edit Name.
- 🖄 If you have connected an AV device to the HDMI IN 2 (DVI) port with an HDMI to DVI cable, you should select DVI mode in Edit Name

Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTERC# button.
 On the Programmed List screen, select the show or channel entry you want to change, and then press the TOOLS button. The Tools Menu approxem

appears. Select Change Info, and then press the ENTER 🚭 button. The Timer

Viewing screen appears.
4. Use the 4/▶ buttons to move from entry field to entry field and the ▲/▼ buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
5. Press the ENTERC₽ button when done.
■ Cancel Schedules: Cancel a show or channel you have scheduled.

Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTER I button.
 On the Programmed List screen, select the show or channel entry you want to cancel, and then press the TOOLS button. The Tools Menu appears.
 Select Cancel Schedules, and then press the ENTER I button. The Cancel Schedules screen anonears

Ju can also change the schedule information. Select the Programmed List icon on the left side of the Channel List screen, and then press the ENTER I button. On the Programmed List screen, select the show or channel entry you want information for, and then press the COLS button. The Tools Menu appears. Select Information, and then press the ENTER I button. The Timer Viewing Infor screen appears

Info screen appears. Select **Change Info**, and then press the ENTER I button to change information, or select **Close**, and then press the ENTER I button to close the

Select All / Deselect All: You can select or deselect all channels in the channel list.

(Channel) button on your remote. For example, if you select Favorite Channels,

Channel Mode (Added Channels/Favorite Channels)

Lets you select the channel list displayed when you press the **ACHV**

you will only see Favorite channels when you press the **ACHV** button.

If the reception is clear, you do not have to fine tune the channel, as this is

done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.
Select the channel, and then select Fine Tune.

Sine tuned channels that have been saved are marked with an asterisk

[™] To reset fine-tuning, select the channel, select **Fine Tune**, and then

Lets you re-run the Plug & Play initial setup procedure. For instructions, see

The time you set will appear when you press the INFO button.

Clock: Set the clock so you can use the various timer features of the TV.

If you disconnect the power cord, you have to set the clock again.

Select Setup >Time > Clock. Press ENTER 🖼 and select Auto or Manual, and then press ENTER 🖼 again.

you selected Auto: e TV will automatically download the correct time from a digital channel. Select Time Zone, and then press the ENTER[] button. Use the ▲/▼ buttons to select your Time Zone, and then press ENTER[]. Select DST (Daylight Savings Time), and then press ENTER[]. Select On if you want to turn the DST adjustment on and off manually. Select Off to turn off the DST adjustment. Press ENTER[] when done. The DST adjustment. Press ENTER[] when done.

The DST and Time Zone functions are only available when the Clock

*" on the right-hand side of the channel number in the channel bann

Schedules screen appears.
 Select OK, and then press the ENTER P button.
 Information: Display the information for a show or channel you have scheduled.

Programmed List Screen Tools Menu TOOLS

To cancel a scheduled show or channel, follow these steps

You can also change the schedule Information.

Other Channel Menu Functions

select Reset on the Fine Tune screen.

🖄 Choose between English, Español, and Français.

Fine Tune

Analog channels only

Setup Menu

Plug & Play

Language

Time

- 8 -

your Quick Start Guide

Set the menu language

Setting the Time

If you selected Auto:

To set the clock, follow these steps:

Mode is set to Auto.

To change the information, follow these steps:

Input Menu

1 Press the SOURCE button

2. Select a desired external input source

TV / AV / Component / HDMI1 / HDMI2/DVI

Source List, connected inputs are highlighted

Source List

The Channel List Tools menu contains most of the functions you can use on the 🛛 Change Info: Change the scheduling information for a show or channel you All Channels, Added Channels, and Favorite Channels List screens. To view, select a list screen, select a channel, and then press the TOOLS button.

Use to select TV or other external input sources such as DVD / Blu-ray

You can only choose external devices that are connected to the TV. In the

layers / cable box / STB satellite receiver connected to the TV.

- Add / Delete: Delete a channel from or add a channel to the Added Channels list. Delete: Detete better of the Added Channels list, follow these steps:
 Select one or more channels in the Added Channels list, tollow these steps:
 Select one or more channels in the Added Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
 Press the TOOLS button on your remote. The Tools menu appears.
 Select Delete in the Tools menu, and then press the ENTER I button.
- To add channels to the Added Channels list, follow these steps
- Select one or more channels in the All Channels list using the A/▼ buttons and the Yellow Select button on your remote. Press the TOOLS button on your remote. The Tools menu appears. Select Add in the Tools menu, and then press the ENTER 😅 button.
- All deleted channels will be shown on the All Channels list. You add channels back to the Added Channels list on the All Channels list. $^{\odot}$ A gray-colored channel indicates the channel has been deleted from the Added Channels list.
- 🖏 The Add menu option only appears for deleted channel Add to Favorite/Delete from Favorite: Lets you add channels to and delete channels from your Favorite Channels list.
- To add channels to the Favorite Channels list, follow these step Select one or more channels in the All Channels list using the A/V buttons and the Yellow Select button on your remote.
 Press the TOOLS button on your remote. The Tools menu appears.
 Select Add to Favorite in the Tools menu, and then press the ENTER CHANGE Comparison of the Select Add to Favorite in the Tools menu, and then press the ENTER CHANGE COMPARISON of the Select Add to Favorite in the Tools menu, and then press the ENTER CHANGE COMPARISON of the Select Add to Favorite in the Tools menu.
- Dotton.
 Delete channels from the Favorite Channels list, follow these steps:

 Select one or more channels in the Favorite Channels list using the ▲/▼ buttons and the Yellow Select button on your remote.
 Press the TOOLS button on your remote. The Tools menu appears.
 Select Delete from Favorite in the Tools menu, and then press the ENTER Button.
- Timer Viewing: You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel. You must set the rent time first in the Time > Clock function to use Timer Viewing.
- To schedule a channel, follow these steps:
 Select a channel in the Added Channels list using the ▲/▼ buttons and
- elect a trialment in the Autor or remote. he Yellow Select button on your remote. Fress the TOOLS button on your remote. The Tools menu appears. Select Timer Viewing in the Tools menu, and then press the ENT
- Timer Viewing screen appears.
- Use the
 buttons to move from entry field to entry field and the ▲/▼
 buttons to change the entries. Where numbers are displayed, you can
 lso enter numbers directly using the number keypad on your remote. If you select Everyday or Every Week, the date you select in the Date field becomes the start date for your scheduled viewing. For Everyday, the TV will turn on every day, at the time you elected, starting from that date. For Every Week, the TV will turn on every week, on the same day of the week as the start date you selected, at the time you selected, from that day on. I you select Once, the TV will turn on once, on the date and time
- you selected. 5. Press the ENTER I button on your remote when done.
- Only Added Channels can be scheduled. Scheduled programs and channels are displayed in the Programmed
- List

Deselect All: Deselect all the selected displayed channels.

Auto Program: See Auto Program under Memorizing Channels.

Programmed List (on the Channel List Screen)

selected.

Tools menu.

- When you select a digital channel press the button to view the digital program list. If you highlight a program in the list, and ther press the ENTERC#(Schedule) button, you set Timer Viewing for that program directly.
- Channel Name Edit: Analog channels only. Lets you assign a name of up to five characters to an analog channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select a channel. ■ Select All: Select all the channels in the displayed channel list.

🔊 You can only select Deselect All when one or more channels are

The Programmed list displays the channels and programs you have schedule

show you have scheduled using the functions on the Programmed List screen

for viewing using the Timer Viewing function. You can view, modify, or delete a

he Clock Set screen appears. Use the \blacktriangle/\forall buttons to change the values in each field or use the number buttons to enter the values with all the fields, press ENTER \blacksquare .

Available only when Clock Mode is set to Manual Sleep Timer TOOLS

Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minu

To cancel the Sleep Timer, select Off.

Timer1 / Timer2 / Timer3

Turns the TV on and off automatically at times and days you select. You can

set three different on/off timer settings. You must set the clock first.

 I our mode call the construction of the construction field to field. Use the \blacktriangle/∇ buttons to change the values in each field.

To activate the time with the setting you have chosen, set the Activate/ Inactivate field to Activate.

Volume: Set the desired loudness.

Contents: To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files.

Use the 4/ buttons to move to the Contents field, and then press the ENTER = 4/ buttons to move to the Contents field, and then press the to move from field to field. Use the 4/ buttons to change the values in each field

- TV/USB: Select TV or USB. The USB device must be connected to your TV before you can select USB.

- Antenna: Displays the current antenna source, Air or Cable.

- Channel: If you have selected TV, select the desired channel.

- Music/Photo: If you have selected USB, follow these steps to select a containing MP3 (Music) or JPEG (Photo) files on the USB device The maximum number of files the TV can display, including sub folders, in one folder of a USB storage device is 1000.
- 🔊 The media may not play smoothly if you use a USB device rated
- The filter and your for pay showing a processing a processing and processing a processing and processing a processing and processing and the press the ENTERCE button. The TV displays a single folder (the Root folder) and the type or name of the device.
 Press the ENTERCE button. A list of folders on the device appears. If there are no folders on your device, press the Yellow select
- outton to select the Root folder, and then press the RETURN

button. The Timer screen re-appears.
Use the A/♥ buttons to highlight a folder that contains music or photos, and then press the Yellow select button to select the folder.
Press the RETURN button. The Timer screen re-appears.
■ Repeat: Select Once, Everyday, Mon-Fri, Mon-Sat, Sat-Sun or Manual. If you select Manual, you can select the days you want to activate the timer by using the $\blacktriangleleft/\triangleright$ buttons to highlight the day, and then pressing the ENTER 🕞 button. To unselect a day, highlight it, and then press the ENTER 🖓 button.

When you finished making all your selections on the Timer screen, press either the ENTER 🕞 or RETURN buttor

Other Features

Voice Guide (On/Off You can activate voice guides that describe the menu options aloud to aid the

Voice Guide: Enable or disable the Voice Guide feature. Voice Guide is

- in the current language.
- Volume: Set the volume of the voice guide Pitch: Set the nitch of the voice quide

■ Speed: Set the speed of the voice guide.

Game Mode (On/Off)

When you connect a game console such as a PlayStation™ or Xbox™ to your TV, you can enjoy a more realistic gaming experience by turning on the Game Mode

Precautions and limitations for game mode:

- Before you disconnect the game console and connect another external device, set Game Mode to Off in the setup menu. • If you display the TV menu in Game Mode, the screen shakes slightly
- Game Mode is not available when the input source is set to TV 🖄 After connecting the game console, set Game Mode to On. You may
- notice slightly reduced picture quality.

Program Rating Lock

The Program Rating Lock feature lets you block programs you've determined ate for your children based on the program's ratings. To access the

Program Rating Lock feature and make any changes, you must enter a PIN (persona Tification number). To watch a blocked program, you must also enter the same PIN. Program Rating Lock is not available in HDMI or Component mode. The default PIN number of a new TV set is "0-0-0-0". You can set your

own PIN using the Change PIN function How It Works

When you access the **Program Rating Lock** Menu functions for the first time, the PIN input screen appears. Enter 0-0-0. The PIN screen closes and the **Program** Rating Lock Menu appears. Every time you access the Program Rating Lock functions, the PIN screen will appear and you must enter a PIN. When the Rating Lock screen appears, select **Program Rating Lock**, and then press ENTER 🕑. Select On, and then press the ENTER 🕑 key again. Depending on what type of programs or movies you want to block, select one of the options on the screen, and then press the ENTER 🗗 button. The options are listed below

- TV Parental Guidelines: You can block TV programs based on their ratings This function allows you to control what your children are watching.
 MPAA Rating: You can block movies based on their MPAA ratings. The Motion Picture Association of America (MPAA) has implemented a rating
- system that provides parents or guardians with advanced information or which films are appropriate for children.
- Canadian English: You can block TV programs based on their Anglophone Canadian ratings.
 Canadian French: You can block TV programs based on their French Canadian ratings.
 Downloadable U.S. Rating: You can use parental restriction information while watching
- DTV channels. Locking/Blocking Programs or Movies
- Vou lock or block programs and/or movies in essentially the same way for each option. Each option displays a grid or table. All the tables have ratings listed on the left. The TV Parental Guidelines option also has kinds of content listed across the top: All: Lock all TV ratings. / FV: Fantasy violence / V: Violence / S: Sexual ituation / L: Adult Language / D: Sexually Suggestive Dialog. To lock/block movies or shows with certain ratings and/or kinds of content
- click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unblock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the RETURN button on your remote. Change PIN: Select Change PIN and the Change PIN screen appears. Choose any 4 digits for your PIN, and then enter them in the Enter New
- PIN fields. Re-enter the same 4 digits in the Confirm New PIN fields. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN. If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to "0-0-0-0" : POWER
- $(off) \rightarrow MUTE \rightarrow 8 \rightarrow 2 \rightarrow 4 \rightarrow POWER (on)$ Caption

(On-Screen Text Dialogue)

- Caption: You can switch the caption function on or off. If captions are not available, they will not be displayed on the scree
- The Caption feature does not work in Component or HDMI mode.
 Caption Mode: You can select the desired caption mode. Default / CC1~CC4 / Text1~Text4: (analog channels only) The Analog Caption
- function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.) Default / Service1~Service6 / CC1~CC4 / Text1~Text4: (Digital channels only) The Digital
- ptions function works with digital channels. Service1-6 may not be available in digital caption mode depending on the broadcast. Digital Caption Options: (Digital channels only)
- Size: Options include Default, Small, Standard, and Large, The default is Standard. Font Style: Options include Default and Styles Ot 7. The default is Style 0. Font Style: Options include Default and Styles 0 to 7. The default is Style 0. Foreground Color: Options include Default, White, Black, Red, Green, Blue, Yellow, agenta, and Cvan. You can change the color of the letters. The default is White. Background Color: Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta, and Cyan. You can change the background color of the cantions. The default is Black
- oreground Opacity: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid, and Flashing. Background Opacity: This adjusts the opacity of the caption background.
- Options include Default, Transparent, Translucent, Solid, and Flashing. Return to Default: This option sets Size, Font Style, Foreground Color, ound Color, Foreground Opacity, and Background Opacity to its default Digital Caption Options are available only when you can select Default and Service1 ~ Service6 in Caption Mode.

The Foreground and Background cannot be set to the same color Boot Logo Enable or disable the display of the Samsung logo when you turn on the TV.

Troubleshooting If the TV seems to have a problem, first review this list of possible problems and solution. If none of these troubleshooting tips apply, visit samsung.com, then click on Support, or call Samsung customer service at 1-800-SAMSUNG

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| Problem | Possible Solution |
|---|--|
| Flickering and Dimming | If your Samsung Television is flickering or dimming sporadically, you may need to disable some of its energy efficiency features such as the Energy Saving feature. Follow the steps below with your remote to turn these features off or on. |
| | Energy saving : MENU → Setup → Eco Solution → Energy Saving → Select Settings |
| Component Connections / Screen Color | If you find that the color on your Samsung television's screen is not correct or black and white, first run a Self Diagnosis Test on the TV to make sure there are no device issues. |
| | Self Diagnosis : User Menu → Support → Self Diagnosis → Picture Test If the test is ok, try making sure ; |
| | If the test is or, up infaining sure; Your connections are all consistent. For example, if you've used the AV In jack on your TV, make sure you have used the AV Out jack on your video source. |
| | Try making sure you have connected to the correct jacks. For example, if you use the Component jacks, labeled Pb, Pr, and Y, to connect your TV and video source, make sure you have connected the blue Pb jack on the video source to the blue Pb jack on the TV, the red Pr jack on the source to the red Pr jack on the TV, etc. |
| Screen Brightness | If you find that the colors on your Samsung TV are correct but just a little too dark or bright, there are some settings you should check before calling for a repair. |
| | Backlight, Contrast, Brightness, Sharpness, Color, Tint and so on. Go to "Picture" in the Menu, and then try adjusting these options. |
| Unwanted Powering off | If your Samsung TV appears to turn off by itself, there may be an issue with either your Timer settings or your Eco friendly No Signal Power Off feature. |
| | First make sure the Sleep Timer is not accidentally set. The Sleep Timer lets you fall asleep with the TV still on knowing that it will turn off after a certain period of time and not waste energy. |
| | Sleep Timer : User Menu → Setup → Time → Sleep Timer |
| | If the Sleep Timer is not activated, you may have engaged the No Signal Power Off or Auto Power Off feature. |
| | No Signal Power Off : User Menu → Setup → Eco Solution → No Signal Power |
| | Auto Power Off : User Menu → Setup → Eco Solution → Auto Power Off |
| Trouble Powering On | Before you turn the TV on, find the red light on the right or left bottom of your TV. Press the power on button on the TV or remote and the light should blink about 5 times before the TV turns on. If you find that you are having trouble powering on your Samsung television, there are a number of things to check |
| | before making a call to the service department. If you happen to be using the TV as a monitor and the stand-by light only blinks for a few seconds when you press the power button, your PC is in sleep mode. To take your PC out of sleep mode, press a key on your keyboard or move the mouse. Then try turning your TV on. |
| | If you're sure your power cord, remote control, and PC are functioning properly, you may be having a cable issue. If you have a cable or satellite box, your TV may appear to be off because the cable or satellite box is not outputting a signal. To test the signal output of your cable or satellite box, press the guide or info button on the cable or satellite box remote control. If the screen displays the guide or info data, the problem is caused by the box. |
| Stand Assembly | If you have any trouble assembling the stand, refer to "Install the Stand" in the Start Up or Stand Installation Guide. |
| Cannot find a channel | Re-run Plug & Play or run Auto Program. (go to MENU - Channel - Auto Program) |
| Poor Picture | First, perform the Picture Test and to see if your TV is displaying the test image properly. Go to MENU - Support - Self Diagnosis - Picture Test |
| | If the test image is properly displayed, the poor picture may be caused by the source or signal. |
| The TV image does not look as good as t did in the store. | If you have an analog cable/satellite box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality. Cable/Satellite subscribers. Try HD channels from the channel line up. |
| | Air/Cable Antenna connection: Try HD channels after running Auto Program. Many HD channels broadcast up scaled SD (Standard Definition) content. The picture quality of up scaled SD content is low. Adjust the Cable/Set top box video output resolution to 1080i or 720p. |
| The picture is distorted has macroblock error, small block, dots, pixelization. | Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in sports and action movies. A weak signal can cause picture distortion. This is not a TV problem. |
| The color is wrong or missing. | Mobile phones used close to the TV (within 3.3ft) may cause noise in the picture on analog and digital channels. If you're using a component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen. |
| There is poor color or brightness. | Adjust the Picture options in the TV menu. (go to Picture Mode / Color / Brightness / Sharpness) Adjust the Energy Saving option in the TV menu. (go to MENU - Setup - Eco Solution - Energy Saving) Try resetting the picture to the default picture settings. (go to MENU - Picture - Picture Reset) |

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- Energy Saving (Off / Low / Medium / High): Lets you adjust the brightness of
- No Signal Power Off (Off / 15 min. / 30 min. / 60 min.): Sets how quickly the TV
- switches to standby mode, if no picture is being received.
 Disabled when an attached PC is in power saving mode.
 Auto Power Off (Off / On): When Auto Power Off is set to On, the TV will
- automatically turn off when no user operation is detected for 4 hour

MEDIA.P

n

Videos

press the ENTER 🖃 button

playing time.

Supported Subtitle Formats

External

progress bar are not displayed.

MPEG-4 timed text

SAMI

SubRip

SubViewer Micro DVD

SubStation Alpha

Advanced Sub

Name

Supported Video Formats

MKV

ASF

MP4

3GP MOV

FLV

VRO

VOB PS

*.webm WebM

*.asf

*.mp4

*.3ap

*.mpg

*.trp

Xsub

SubStation Alpha Advanced SubStation Alpha

MPEG-4 Timed text

otion JPEC

1.264 BP/ MP/HP

H. 264 BP

MP / HP

Divx 3.11 / 4

/5/6

MPEG4 SP

ASP

1edia Vide v9(VC1)

MPEG2

Application Menu

Enjoy photos, music, and/or movie files saved on a USB Mass torage Class (MSC) device.

- Connecting a USB Device 1. Turn on your TV.
- 2. Connect a USB device containing photo, music, and/or movie files to the USB
- jack on the back of the TV. A pop up window appears. . Press the MEDIA.P button on your remote. The Media Play menu appears.
- Using the Media Play Menu o open Media Play in the Menu, follow these st
- Press the MENU button. Then, press the ▲ or ▼ button to select Applications on the left, and then press the ENTER I button.
- 2. Press the ▲ or ▼ button to select Media Play (USB), and then press the
- 3. Press the ◀ or ► button to select an icon (Videos, Music, Photos, Settings),
- Media Play might not work properly with unlicensed multimedia files.
 Media Play might not work properly with unlicensed multimedia files.
 Read the list below before using Media Play (USB)
 The file system supports FAT16, FAT32, and NTFS.
 Certain types of USB Digital camera and audio devices may not be compatible with this TV.
 Media Play and wennests UER Mass Starson Class (MSC) devices
- Media Play only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives and Flash Card Readers. Davice schuld be accessed of the storage class and storage class.
- Devices should be connected directly to the TV's USB port. USB HDD is not supported. Before connecting your device to the TV, please back up your files to prevent file damage or loss of data. SAMSUNG is not
- ponsible for any data file damage or data loss. • A USB device that requires high power (more than 0.5A) may not be supported.
- Do not disconnect the USB device while it is loading • The higher the resolution of the image, the longer it takes to display
- on the screen. The maximum supported JPEG resolution is 15360 x 8640 pixels. If a file is corrupted or the TV does not support the file type, the "Not Supported File Format" message appears.
- The TV cannot play MP3 files with DRM that have been (DRM) is a technology that supports the creation, distribution,
- and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and
- managing billing and settlements.
 PTP (Pier to Pier) devices are not supported.
 If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunctio

Auto Protection Time

Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours): If the screen remains idle with a still image for a certain period of time you define, the screen saver is activated to prevent the formation of ghost images on

- If the TV has no input during the time period set in Auto
- Protection Time, the Screen saver will run.
- The power-saving mode of some external hard disk drives may be released automatically when your connect them to the TV.
 If you use a USB extension cable, the TV may not recognize the USB
- device or may not be able to read the files on the device.
 If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played,
- connect the USB device to a PC, format the device, and check the
- If the picture size is set to Screen Fit, change it to 16:9 There is a dotted line on the edge of Change the cable/satellite box resolution The picture is black and white • If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV. When changing channels, the picture • If the TV is connected to a cable box, reset the cable box. (Disconnect and then reconnect the box's AC cord, and then wait until the cable box reboots. It may take up to 20 minutes. freezes or is distorted or delayed. Set the output resolution of the cable box to 1080i or 720p. Sound Problems Perform the **Sound Test** to confirm that your TV audio is properly operating. (go to MENU - Support - Self Diagnosis - Sound Test) If the audio is OK, the sound problem may be caused by the source or signal. • Check the volume of the device (Cable/Sat Box, DVD, Blu-ray, etc.) connected to your TV. There is no sound or the sound is too low at maximum volume If you are using an external device, check the device's audio output option Ex. you may need to change your
 cable box's audio option to HDMI if the box is connected to your TV using an HDMI cable. The picture is good, but there is no Reboot the connected device by reconnecting the device's power cable · Check the cable connections. Make sure a video cable is not connected to an audio input The speakers are making an · For Antenna or Cable connections, check the signal information. A weak signal may cause sound distortion. · Perform the Sound Test as explained above No Picture, No Video Make sure the AC power cord is securely plugged into the wall outlet and the TV. The TV will not turn on • Make sure the wall outlet is working. Try pressing the POWER button on the TV to make sure the problem is not the remote. If the TV turns on, refer to 'Remote control does not work' below The TV turns off automatically. • Ensure the Sleep Timer is set to Off in the Time menu. If your PC is connected to the TV, check your PC power settings Make sure the AC power cord is plugged securely into the wall outlet and the TV. • When you are watching TV connected to an antenna or cable connection, the TV will turn off after 10 - 15 minutes if there is no signal There is no picture/video Check the cable connections. (Remove and reconnect all cables connected to the TV and external devices Set your external device's (Cable/Sat Box, DVD, Blu-ray etc) video outputs to match the connections to the TV input. For example, if an external device's output is HDMI, it should be connected to an HDMI input on the TV. Make sure your connected devices are powered on. Be sure to select the correct input source by pressing the SOURCE button on the remote control Reboot the connected device by unplugging and then reconnecting the device's power cable RF (Cable/Antenna) Connection The TV is not receiving all channels. Make sure the coaxial cable is connected securely. Run Auto Program to add available channels to the channel list for to MENU - Channel - Auto Program then select Auto and make sure the correct Cable TV signal type is set in the menu. There are 3 options. (STD, HRC and IRC) Verify the antenna is positioned correctly. No Caption on digital channels. • Check the Caption Setup menu. Try changing Caption Mode Service1 to CC1. • Some channels may not have caption data. Compression of video contents may cause picture distortion, especially on fast moving pictures such as those in The picture is distorted: macroblock error, small block, dots, pixelization sports and action movies A weak signal can cause picture distortion. This is not a TV problem Others Purple/green rolling horizontal bars Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the and buzzing noise from the TV speakers set-top-box has a grounding issue. Replace the Component video cables with an HDMI connectio with Component cable connection The picture will not display in full • HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents. • Black bars on the top and bottom appear when movies that have aspect ratios different from your TV play on screen · Adjust the picture size option on your external device or change the TV to full screer Replace the remote control's batteries. Make sure you insert them with the polarity (+/-) correct The remote control does not work. Clean the transmission window located on the top of the remote control. Try pointing the remote directly at the TV from 5~6 feet away. Program the Cable/Set top box remote control to operate the TV. Refer to the Cable/Set top box user manual for The cable/set top box remote control does not turn the TV on or off, or adjust the SAMSUNG TV code. the volume. Check the supported resolution of the TV and adjust the external device's output resolution accordingly. Refer to
 resolution settings in this manual. A "Mode Not Supported" message appears.
- Caption on the TV menu is greyed out. • You cannot select Caption in the TV menu when watching content from a device connected via HDMI or Component. · Caption must be activated on the external device.

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- If a file you deleted from the PC is still found when you run Media Play, use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- Photos only supports the sequential jpeq format The Videos option does not support the scene search and thumbnail functions.
 If the number of files and folders saved on a USB storage device is
- ver approximately 4000, the files and folders may not appear and
- some folders may not open. The maximum displayed number of files, including sub folders, in one folder of a USB storage device is 1000. The media may not play smoothly if you use a USB device rated lower than USB 2.0.

1.In the Media Play menu, press the ◀ or ► button to select Videos, and then

Press the $\langle \mathbf{A} | \mathbf{E} \rangle$ buttons to select a video in the file list.

Press the ENTER ➡ button or ► (Play) button.
 The file name is displayed on the top of the screen with the

If video time information is unknown, playing time and the

In this mode, you can play movie clips contained in a game, but you cannot play the game itself.

During video playback, you can search using the ◀ and ▶ buttons.

.smi

.sub or .txt

.ssa

Text Format

LPCM

ADPCM (IMA, MS)

AAC

HE-AAC

WMA

Dolby Digital Plus

IPEG(MP3)

DTS (Core LBR) G.711(A-

aw, μ-Law)

Container Format

VP8 1920x1080 6~30 20 Vorbis

MP4

File Extension Container Video Codec Resolution Frame rate(fps) Bit rate (Mbps) Audio Codec

Other Restrictions

Video Decoder

Music

Photos

▲ NOTE

JPEG

NOTE

prevent scratches

License

Codecs may not function properly if there is a problem with the content. Video content will not play or will not play correctly if there is an error in the content or containe

 Sound or video may not work if they have bit rates/frame rates above the TV's compatibility ratings.If the Index Table contains an error, the Seek (Jump) function will not work.

 When the TV is playing video over a network connection, the video may not play smoothly because of data transmission speeds. Some USB/digital camera devices may not be compatible with the TV. When the TV is playing a video at a bit rate of 10 Mbps or higher, the menu screens may be displayed slowly.

Supports up to H.264, Level 4.1 1.264 FMO / ASO / RS, VC1 / AP L4 are not supported. IMC 2 or above is not supported.

Audio Decoder WMA10 Pro supports up to 5.1 channels. Supports up to the M2 profile. WMA lossless QCELP and AMR NB/WB are not supported rbis is supported for up to 2 channels

Dolby Digital Plus is supported for up to 5.1 channels. The DTS LBR codec is only available for MKV / MP4 /TS containers

1. In the Media Play menu, press the ◀ or ▶ button to select Music, and the press the ENTER 🕞 button.

- Press the $4/\mathbf{b}/\mathbf{A}/\mathbf{V}$ buttons to select the desired Music in the file list. Press the ENTER 🕞 button or 🕨 (Play) button.
- Solution of the second second
- extensions are not displayed, even if they are saved on the same USB device If the sound is abnormal when the TV plays MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)

. In the Media Play menu, press the ◀ or ▶ button to select Photos, then press the ENTER 🕞 button. Press the 4/b/A/V buttons to select a photo in the file list.

Press the ENTER 🚭 button or 🕨 (Play) button. While a photo list is displayed, press the
 (Play) / ENTER

- itton on the remote control to start a slide show. All files in the file list section will be displayed in the slide show. During the slide show, files are displayed in order.
 During the slide show, you can adjust the slide show speed
- using (I (REW) or (FF) butto You can move to other files using ◄ or ▶ button.
 Media Play can play Music files automatically during a Slide Show if
- Background Music is set to On. You cannot change the Mode in Background Music until the Background Music file has finished loading.

Supported Photo Formats Image Photo 1024 x 768

Other Restrictions • CMYK, YCCK Color space JPEG are not supported.

Playing Multiple Files

Playing selected video/music/photo files 1. On the File List screen, highlight a file, and then press the Yellow button on your remote.

Repeat Step 1 to select multiple files. A ✓ mark appears to the left of the selected files

To cancel a selection, press the Yellow button again.
To deselect all selected files, press the TOOLS button, select

Deselect All, and then the ENTER 🕑 button. 3. Press the TOOLS button, select Play Selected Contents, and then press the

ENTER 🖓 button. Playing a video/music/photo folder

1. With the folders on your USB device displayed, use the $4/\mathbb{A}/\mathbb{A}$ buttons to highlight a folder.

2. Press the TOOLS button, select Play Folder, and then press the ENTER 🕑 button.

Media Play - Additional Functions Videos/Music/Photos Play Option menu

When playing a file, press the TOOLS butto

| Category | ry Operation | | Music | Photos |
|----------------------------------|--|--------------|--------------|--------------|
| Title | You can select another video file to play directly. | \checkmark | | |
| Repeat Mode | You can play movie and music files repeatedly. | \checkmark | \checkmark | |
| Picture Size | You can adjust the picture size to your preference. | \checkmark | | |
| Picture Mode | You can adjust the picture setting. | \checkmark | | \checkmark |
| Sound Mode | You can adjust the sound setting. | \checkmark | \checkmark | \checkmark |
| btitle Settings | You can play the video with Subtitles. This function only works if the subtitles have the same file name as the video. | \checkmark | | |
| udio Format | You can select the digital audio output format. | \checkmark | | |
| idio Language | You can change the audio language if the video has more than one language. | \checkmark | | |
| p Slide Show / art Slide Show | You can start or stop a Slide Show. | | | ~ |
| de Show Speed | You can select the slide show speed during the slide show. | | | ~ |
| Background Music | You can set and select background music when watching a Slide Show. | | | ~ |
| Zoom | Zoom You can zoom into images in full screen mode. | | | ✓ |
| Rotate | You can rotate images in full screen mode. | | | \checkmark |
| | | \checkmark | \checkmark | \checkmark |
| | | | | |

Settings

- Using the Setup Men DivX® Video On Demand: Shows the registration code authorized for the TV. If you connect to the DivX web site and register with the 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the
- registration is completed. For more information on DivX® VOD, visit "http://vod.divx.com". Information: Select to view information about the connected USB

device

□ Using Sports Mode TOOLS, □ ns for watching soccer and other

- A (Zoom): Pauses playback and divides the picture into 9 parts. Select a
- art to zoom it in When Sports Mode is On, the picture and sound modes are set to
- 🔊 If you turn the TV off while Sports Mode is on, Sports Mode is turned

Support Menu

Self Diagnosis

- Picture Test: Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen Sound Test: Use the built-in melody sound to check for sound proble
- If the problem occurs during the test, select Yes and follow the directions ■ Signal Strength: (Digital channels only) An HD channel's reception quality
- is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- Reset: Reset all settings to the factory defaults. The PIN input screen appears before the setup screer
- 🖄 Enter your 4-digit PIN. Change the PIN using the Change PIN

Software Upgrade Software Upgrade can be performed by downloading the latest firmware

ing.com to a USB memory device Use Mode

You can turn the TV into a display model for retail environments by setting

Use Mode to Store Demo. 🔊 For all other uses, select Home Use.

🗞 With Store Demo, some functions are disabled, and the TV

automatically resets itself after a preset amount of time.

| There is a plastic smell from the TV. | This smell is normal and will dissipate in a few days. | | | |
|---|--|--|--|--|
| TV Signal Strength is unavailable in the Self Diagnosis Test menu. | This function is only available for digital channels received through an Antenna / RF/Coax connection. | | | |
| TV is tilted to the right or left side. | Remove the stand base from the TV and reassemble it. | | | |
| The Channel menu is grey out (unavailable). | The Channel menu is only available when you select the TV source. | | | |
| Your settings are lost after 30 minutes or every time the TV is turned off. | If TV is in the Store Demo mode, it will reset audio and picture settings every 30 minutes. Please change from Store Demo mode to Home Use mode using the Plug & Play procedure. Press the SOURCE button to select TV mode, go to MENU → Setup → Plug & Play → ENTER . | | | |
| You have intermittent loss of audio or video. | Check the cable connections and reconnect them. Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to the wall, we recommend using cables with 90 degree connectors. | | | |
| You see small particles when you look closely at the edge of the frame of the TV. | This is part of the product's design and is not a defect. | | | |
| POP (TV's internal banner ad) appears on the screen. | Select Home Use under Plug & Play mode. For details, refer to Plug & Play (Initial Setup). | | | |

🗞 This TFT LED panel uses a panel consisting of sub pixels which require sophisticated technology to produce. However, there may be a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product You can watch detailed troubleshooting videos at www.samsung.com/spsr

Some functions and pictures shown in this manual are available on specific models only.

Source A see your TV in optimum condition by upgrading it with the latest firmware from the Samsung web site (samsung.com → Support → Downloads). To upgrade, download the firmware to your computer, copy the firmware file to a USB memory stick, insert the USB memory stick into the TV's USB slot, and then

Storage and Maintenance

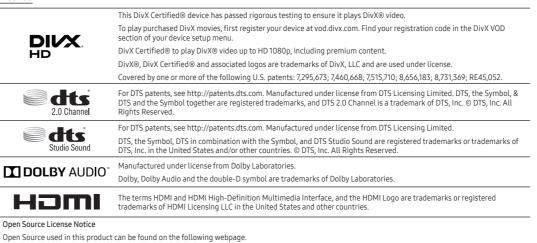
select Support > Software Upgrade in the TV's menu.

🗞 If a sticker was attached to the TV screen, some debris can remain after you remove the sticker. Please clean it before watching the TV. 🗞 The exterior and screen of the product can get scratched during cleaning. Be sure to wipe the exterior and screen carefully using a soft cloth to





Clean the product with a soft cloth ampened with in a small amount of water. Do not use a flammable liquid (e.g. benzene, thinners) or a cleaning agent.



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(http://opensource.samsung.com) Open Source License Notice is written only English.

HD Connection Guide

Refer to this information when connecting external devices to the TV. Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call ters and how to download products and software.

Other Information

Installing the Wall Mount Kit

The wall mount kit (sold separately) allows you to mount the TV on the wall. For detailed information on installing the wall mount, see the instructions provided with the wall mount items. Contact a technician for assistance when installing the wall mount bracket. Samsung Electronics is not responsible for any damage to the product or injury to yourself or others if you elect to install the wall mount on your own

Wall Mount Kit Specifications (VESA) The wall mount kit is not supplied, but sold separately

Install your wall mount on a solid wall perpendicular to the floor. When attaching to other building materials, please contact your nearest dealer. If u install the TV on a ceiling or slanted wall, it may fall and result in severe personal injury. NOTE

- Standard dimensions for wall mount kits are shown in the table
- When purchasing our wall mount kit, a detailed installation manual and all parts necessary for assembly are provided
- Do not use screws that do not comply with the VESA standard screw specifications. Do not use screws that are longer than the standard dimension
- or do not comply with the VESA standard screw specifications. Screws that are too long may cause damage to the inside of the TV set
- For wall mounts that do not comply with the VESA standard screw specifications, the length of the screws may differ depending on the wall mount specifications.
- Do not fasten the screws too firmly. This may damage the product or cause the product to fall, leading to personal injury. Samsung is not liable for these kinds of accidents.
- Samsung is not liable for product damage or personal injury when a non-VESA or non-specified wall mount is used or the consumer fails to follow the product installation instructions.
- Do not mount the TV at more than a 15 degree tilt. • Always have two people mount the TV on a wall.

VESA screw hole specs (A * B) in millimeters Standard Screw LED-TV 28 100 X 100 M4 Do not install your Wall Mount Kit while your 1V is turned on result in personal injury due to electric shock. while your TV is turned on. It may -

Securing the TV to the Wall

Caution: Pulling, pushing, or climbing onto the TV may cause the TV to fall. In particular, ensure that your children do not hang over or destabilize the TV; doing so may cause the TV to tip over, resulting in serious injuries or death. Follow all safety precautions provided on the included Safety Flyer. For added stability, install the anti-fall device for safety purposes, as

To prevent the TV from falling

- Since the necessary clamps, screws, and string are not supplied, please purchase these additionall
- 1. Drive the screws into the clamps and firmly fasten them onto the wall. Make sure the screws are firmly fixed into the wall.
- 2. Remove the screws from the back center of the TV, put the screws into the lamps, and then fasten the screws onto the TV again
- Connect the clamps fixed onto the TV and the clamps fixed onto the wall with a strong cable and then tie the string tightly.
- Verify all connections are properly secured. Periodically check the connections for any sign of fatigue or failure. If you have any doubt about the security of your connections, contact a professiona
- 🖄 Install the TV close to the wall so that it does not fall.
- It is safe to connect the string so that the clamps fixed on the wall are equal to or lower than the clamps fixed on the TV. Untie the string before moving the TV.

Kensington Lock

The Kensington Lock is not supplied by Samsung. It is a device used to physically fix the system when using it in a public place. Refer to the manual provided with the Kensington Lock for additional information on proper use. Please find a "🗟" icon on the rear of the TV. The Kensington slot is beside the "🗟" icon

The position and color may differ depending on the model

Arranging the cables with the cable guide



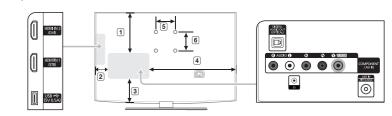
| Specifications | | |
|------------------------------|--------------------------------|--|
| Environmental Considerations | | |
| Operating Temperature | 50°F to 104°F (10°C to 40°C) | |
| Operating Humidity | 10% to 80%, non-condensing | |
| Storage Temperature | -4°F to 113°F (-20°C to 45°C) | |
| Storage Humidity | 5% to 95%, non-condensing | |
| Model Name | UN28H4000 | |
| Display Resolution | 1366 x 768 | |
| Screen Size | 28" Class | |
| (Diagonal) | (27.5" measured diagonally) | |
| Sound | | |
| Output | 10 W | |
| Dimensions (W x H x D) | | |
| Body | 25.3 x 15.6 x 2.4 inches | |
| | (643.4 x 396.5 x 62.9 mm) | |
| With stand | 25.3 x 17.1 x 6.4 inches | |
| | (643.4 x 435.1 x 163.4 mm) | |
| Weight | | |
| Without Stand | 8.2 lbs (3.73 kg) | |
| With Stand | 9.0 lbs (4.10 kg) | |

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Design and specifications are subject to change without prior notice.

🔊 The actual appearance of the TV may differ from the images in this manual, depending on the model. 🕲 Typical power consumption is measured according to Energy Star Program requirements for televisions

■ JACK PANEL DETAIL / REAR VIEW



| Model name | 1 | 2 | 3 | 4 | 5 | 6 |
|--|-----|-----|-----|------|-----|-----|
| UN28H4000 | 5.8 | 3.1 | 4.0 | 15.5 | 3.9 | 3.9 |
| NOTE: All drawings are not necessarily to scale. Some dimensions are subject to change without prior notice. Refer to the dimensions prior to performing installation of your TV. Not responsible for typographical or printed errors. | | | | | | |
| © 2017 Computer Electronics America Inc. | | | | | | |

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(Unit: inches)